

**PLASTIC TO FUEL: EFFECT OF CATALYST SUPPORT FOR NICKEL  
CATALYST**

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**PLASTIC TO FUEL: EFFECT OF CATALYST SUPPORT FOR NICKEL  
CATALYST**

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Thesis submitted in partial fulfilment of the requirements  
for the award of the degree of  
Bachelor of Chemical Engineering

**Faculty of Chemical & Natural Resources Engineering  
UNIVERSITI MALAYSIA PAHANG**

DECEMBER 2016

### **SUPERVISOR'S DECLARATION**

I hereby declare that I have checked this thesis and in our opinion, this thesis is adequate in terms of scope and quality for the award of the degree of Bachelor of Chemical Engineering.

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I hereby declare that the work in this thesis is my own except for quotations and summaries which have been duly acknowledged. The thesis has not been accepted for any degree and is not concurrently submitted for award of other degree

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## ACKNOWLEDGEMENT

I would like to express my special appreciation and thanks to my supervisor, Dr. Ruzinah Binti Isha. You have been a brilliant mentor for me. I would like to thank you for your neverending support during my tenure as research student under your guidance, for giving insightful comments and suggestions of which without it, my research path would be a difficult one. Your advice on my research has been valuable.

A special thanks to my family. Words cannot express how grateful I am to my father (Fan Kiew @ Fan Keong), mother (Lok Yoke Peng) and my sisters (Fan Wai Fun and Fan Wai Wuan) for the love and support throughout these years. Your encouragement was what sustained me thus far.

I am also indebted to the Ministry of Higher Education and Faculty of Chemical Engineering & Natural Resources, Universiti Malaysia Pahang for funding my study.

I would also like to thank all of my friends who supported me in writing, and motivate me to strive towards my goal. I would like to express my appreciation to my seniors (Willy Wong Xiu Fa and Leong Chun Yi) who always help me out whenever I faced difficulties when I run my experiment. I am sincerely grateful to the staffs of Chemical Engineering and Natural Resources Faculty who helped me in many ways and made my stay in UMP pleasant and unforgettable.

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**LIST OF SYMBOLS**

wt

weight

## LIST OF ABBREVIATIONS

BET	Brunauer-Emmett-Teller
SEM	Scanning electron microscope
TGA	Thermogravimetric analysis
HDPE	High-density polyethylene
LDPE	Low-density polyethylene
PE	Polyethylene
PP	Polypropylene
PS	Polystyrene
PET	Polyethylene terephthalate
PVC	Polyvinyl chloride
UK	United Kingdom
PONA	Paraffin, olefins, naphthenes and aromatics
LPG	Liquefied petroleum gas
FCC	Fluidized catalytic cracking
OPA	Oil palm ash
GC-MS	Gas chromatography mass spectrometry
GC-TCD	Gas chromatography- thermal conductivity detector